

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5 CHICAGO REGIONAL LABORATORY 536 SOUTH CLARK STREET



Date:	7/6/2011	
Subject:	Review of Region 5 Data for United Oil Recovery	Services
From:	Erlinda Evangelista Region 5 Chicago Regional Laboratory	mangalish.
То:	Office of Enforcement and Compliance Assurance 77 W. Jackson Chicago, IL 60604	
docume Please b	a being transmitted under this cover memo successfunted in our current Quality Management Plan (QMP) be aware that CRL does not perform data validation we must be performed independently of the laboratory g	and appropriate Standard Operating Procedures (SOPs) which is based on your data quality objectives. This
Results	in this report represent only the samples analyzed.	
	nave the U.S. EPA Project Manager/Officer call the Conts or questions.	RL Sample Coordinator at (312) 353-7444 for any
Syl	d are Results for: United Oil Recovery Services Management Coordinator and Date Received	07-07-2011
Date Tra	07-07-2011 ansmitted:/	
	n this report:	
SCA)	PCB (TSCA)	

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Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605 Phone:(312)353-8370 Fax:(312)886-2591



Office of Enforcement and Compliance Assurance

77 W. Jackson Chicago IL, 60604 Project: United Oil Recovery Services

Project Number: EN0211 Project Manager: Paul Novak Reported: Jul-06-11 15:58

ANALYSIS CASE NARRATIVE

Analyst Phone No: 312-353-4331

General Information

This project consisted of one water and three oil samples for PCB analysis by GC003 Rev. 7 (GC/ECD).

The water sample and associated QC samples were prepared by separatory funnel extraction. One additional aliquot of the sample was received and was processed as matrix spike sample. The samples were brown in color, somewhat oily, with suspended particles. Due to lack of sample, a MSD was not prepared. The data user was made aware of this situation.

The oil samples were multi-phasic, with suspended, powdery particles. Prior to obtaining the sample aliquot, the phases were allowed to separate; only the oil part was taken for the analysis. The solvent dilution method (GC012 Rev. 5) was followed in the preparation of these samples.

The extracts were subjected to Florisil cartridge cleanup (GC014 Rev. 3), acid cleanup (GC016 Rev. 2), and sulfur cleanup by copper treatment (GC019 Rev. 2).

All holding times were met.

Sample Analysis and Results

Preparation of Water Samples:

Addition of the extraction solvent (dichloromethane) to the water samples and subsequent shaking resulted in heavy precipitation which made it very difficult to separate the solvent from the aqueous phase. The only alternative was to filter through sodium sulfate. Concentration and solvent exchange to hexane resulted in a very viscous solution and hard gummy material.

Preparation of Oil samples:

The phases were allowed to separate prior to obtaining the oil sample for analysis. 2.5 g of the oil sample was weighed out and diluted to 25 ml with hexane instead of 1 g diluted to 10 ml as specified in the SOP in order to have sufficient extract for the extensive cleanup anticipated. The amount of surrogates and the spiking solutions for the QC samples were adjusted accordingly.

The extracts were subjected to extensive cleanup following the procedures mentioned earlier in this narrative.

Analysis:

Due to the presence of interferences not eliminated by the various cleanup procedures and the huge, unresolved "humps" eluting late in the chromatograms of both the water and oil extracts, dilutions were made in an attempt to

Page 2 of 14 Report Name: 1105008 FINAL Jul 06 11 1558



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bring the baseline down and/or resolve the "hump" to determine if PCBs could be present. The "humps" remained unresolved even though the baseline came down slightly. Therefore, the reporting limits had to be elevated based on the dilutions; reporting limits for the later eluting Aroclors (1254, 1260, 1262, and 1268) are higher than for the earlier eluting Aroclors (1221, 1016, 1232, 1242, and 1248).

There were no PCBs (as Aroclors) detected above the elevated reporting limits. All the results for the samples will be flagged as estimated (J) and biased low (L) due to the outliers mentioned in the QC section below. The outliers could be attributed to the presence of matrix interferences and losses during sample preparation and extensive cleanup.

Please see the LIMS report for the reporting limits.

Quality Control

Instrument Quality Controls:

All instrument controls met QC limits.

Method Quality Control:

1. Water QC samples:

Both TCMX and DCB were outside QC limits in the method blank and in MS1; DCB was outside QC limits in BS1.

Aroclors 1016 and 1260 recoveries in the matrix spike could not be calculated due to matrix interferences that persisted in spite of the extensive cleanup.

2. Oil QC samples:

TCMX recoveries were outside QC limits for BS1 and BSD1.

Aroclor 1016 recoveries in BS1 and BSD1 were outside QC limits.

Aroclors 1016 and 1260 recoveries in the MS/MSD could not be calculated due to matrix interferences that persisted in spite of the extensive cleanup.

3. Site samples:

All of the surrogates for the site samples exceeded the QC limits.

A. Penangalaha 1/5/11

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77 W. Jackson

Chicago IL, 60604

Project: United Oil Recovery Services

Project Number: EN0211

Project Manager: Paul Novak

Reported:

Jul-06-11 15:58

ANALYTICAL REPORT FOR SAMPLES

_	Laboratory ID	Matrix	Date Sampled	Date Received
Sample ID	LALOU WICK J. L.			
S01	1105008-01	Oil	May-24-11 15:55	May-25-11 12:31
	1105008-02	Oil	May-24-11 15:58	May-25-11 12:31
S02	1103006-02	On	-	
S03	1105008-03	Water	May-24-11 16:02	May-25-11 12:31
	1105000 04	O:I	May 24 11 16:30	May-25-11 12:31
S04	1105008-04	Oil	Wlay=24-11 10.50	May 25 XX 12.51

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Certificate # L2280 Testing

Office of Enforcement and Compliance Assurance

77 W. Jackson Chicago IL, 60604 Project: United Oil Recovery Services

Project Number: EN0211 Project Manager: Paul Novak

Reported: Jul-06-11 15:58

PCB by GC/ECD, EPA 8082 A (modified)

US EPA Region 5 Chicago Regional Laboratory

S01 (1105008-01) Oil Sampled: May-24-11 15:55 Received: May-25-11 12:31

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
PCB-1016	U	J, L	4.86	9.73	ug/g	10	B106013	Jun-14-11	Jun-23-11
PCB-1221	U	J, L	4.86	9.73	ц	19	н	11	n
PCB-1232	U	J, L	4.86	9.73	н	17	н	Pt.	h
PCB-1242	U	J, L	4.86	9.73	н))	н	н	11
PCB-1248	U	J, L	4.86	9.73	11	н	II	U	11
PCB-1254	Ū	J, L	48.6	97.3	ıı	100	n	n	Jun-21-11
PCB-1260	U	J, L	48.6	97.3	h	"	19	и	11
PCB-1262	U	J, L	48.6	97.3	u	11	rj .	п	h
PCB-1268	U	J, L	48.6	97.3	н	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	11	0	N.
									·
Surrogate: Tetrachloro-meta-xylene	0.00			%	52	!-110	"	" Jun-1	7-11
Surrogate: Decachlorobiphenyl	0.00	MI		%	52	!-110	"	" "	

S02 (1105008-02) Oil Sampled: May-24-11 15:58 Received: May-25-11 12:31

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
PCB-1016	U	J, L	4.33	8.65	ug/g	10	B106013	Jun-14-11	Jun-23-11
PCB-1221	U	J, L	4.33	8.65	I)	n ·	n	17	U
PCB-1232	U	J, L	4.33	8.65	II	n	ır	н	

Erlinda Evangelista, Group Leader

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Office of Enforcement and Compliance Assurance

77 W. Jackson Chicago IL, 60604 Project: United Oil Recovery Services

Project Number: EN0211
Project Manager: Paul Novak

Reported: Jul-06-11 15:58

PCB by GC/ECD, EPA 8082 A (modified)

US EPA Region 5 Chicago Regional Laboratory

S02 (1105008-02) Oil Sampled: May-24-11 15:58 Received: May-25-11 12:31

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
PCB-1242	U	J, L	4,33	8.65	ug/g	10	B106013	Jun-14-11	Jun-23-11
PCB-1248	U	J, L	4.33	8.65	11	И	п	п	т .
PCB-1254	U	J, L	43.3	86.5	н	100	"	a	Jun-21-11
PCB-1260	U	J, L	43.3	86.5	0	TI .	п	rt	11
PCB-1262	Ū	J, L	43.3	86.5	0	n	rt	77	н
PCB-1268	Ū	J, L	43.3	86.5	11	п .	h	u	Ħ
Surrogate: Tetrachloro-meta-xylene	0.225			130 %	. 5	52-110	и	" Jun-	-17-11
Surrogate: Decachlorobiphenyl	0.00	MI		%	5	52-110	<i>II</i> .	"	"

S03 (1105008-03) Water Sampled: May-24-11 16:02 Received: May-25-11 12:31

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
PCB-1016	U	J, L	0.500	1.00	ug/L	1	B105040	May-31-11	Jun-17-1
PCB-1221	U	J, L	0.500	1.00	u	I1	п	п	n
PCB-1232	Ū	J, L	0.500	1.00	(t	п	н	IT.	II
PCB-1242	U	J, L	0.500	1.00	11	II	п	н	U
PCB-1248	U	J, L	0.500	1.00	11	п	h	н	11
PCB-1254	U	J, L	0.500	1.00	И	n .	н .	n	11

Frlinda Evangelista, Group Leader

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Certificate # L2280 Testing

Office of Enforcement and Compliance Assurance

77 W. Jackson Chicago IL, 60604 Project: United Oil Recovery Services

Project Number: EN0211 Project Manager: Paul Novak

Reported: Jul-06-11 15:58

PCB by GC/ECD, EPA 8082 A (modified) US EPA Region 5 Chicago Regional Laboratory

S03 (1105008-03) Water Sampled: May-24-11 16:02 Received: May-25-11 12:31

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
PCB-1260	U	J, L	25.0	50.0	ug/L	50	B105040	May-31-11	Jun-23-1
PCB-1262	U	J, L	25.0	50.0	п	n	17	и	n
PCB-1268	U	J, L	25.0	50.0	P	11	ĮI.	ří	п
Surrogate: Tetrachloro-meta-xylene	2.00E-2			10.0 %	50	0-150	н	" Jun-l	7-11
Surrogate: Decachlorohiphenyl	0.00	MI		%	50	0-150	"	" "	

S04 (1105008-04) Oil Sampled: May-24-11 16:30 Received: May-25-11 12:31

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
PCB-1016	U	J, L	4.72	9,43	ug/g	10	B106013	Jun-14-11	Jun-23-11
PCB-1221	Ū	J, L	4.72	9,43	н	н	nj.	н	и
PCB-1232	U	J, L	4.72	9,43	п	И	н	н	
PCB-1242	U	J, L	4.72	9.43	ţı .	.11	lt.	p	n
PCB-1248	U	J, L	4.72	9.43	9		11	υ	n
PCB-1254	U	J, L	47.2	94.3	th	100	11	n	Jun-21-11
PCB-1260	U	J, L	47.2	94.3	r)	PÎ.	II.	н	н
PCB-1262	U	J, L	47.2	94,3	и	p):	n n	И	и
PCB-1268	U	J, L	47.2	94.3	Ħ	rr	11	п	11



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Project Number: EN0211 Project Manager: Paul Novak

Reported: Jul-06-11 15:58

PCB by GC/ECD, EPA 8082 A (modified)

US EPA Region 5 Chicago Regional Laboratory

S04 (1105008-04) Oil Sampled: May-24-11 16:30 Received: May-25-11 12:31

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Surrogate: Tetrachloro-meta-xylene Surrogate: Decachlorobiphenyl	0.113 0.00	MI		60.0 % %		2-110 2-110	B106013	Jun-14-11 "	Jun-17-11 "

Erlinda Evangelista, Group Leader

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Certificate # <2288 Testing

Office of Enforcement and Compliance Assurance

77 W. Jackson Chicago IL, 60604 Project: United Oil Recovery Services

Project Number: EN0211 Project Manager: Paul Novak

Reported:

Jul-06-11 15:58

PCB by GC/ECD, EPA 8082 A (modified) - Quality Control US EPA Region 5 Chicago Regional Laboratory

Batch B105040 - EPA 3510B

Blank (B105040-BLK1)			Pre	pared: Ma	y-31-11	Analyzed:	Jun-17-1	1			
		Flags /	Reporting		Spike	Source	%REC			RPD	
Analyte	Result	Qualifiers	MDL	Limit	Units	Level	Result	%REC	Limits	RPD	Limit
PCB-1016	U		0.500	1.00	ug/L						
PCB-1221	U		0.500	1.00	11						
PCB-1232	\mathbf{U}		0.500	1.00	n				•		
PCB-1242	U		0.500	1.00	IJ						
PCB-1248	U		0.500	1.00	11						
PCB-1254	U		0.500	1.00	πŧ						
PCB-1260	\mathbf{U}		0.500	1.00	н						
PCB-1262	\mathbf{U}		0.500	1.00	Ħ						
PCB-1268	U		0.500	1.00	n						
	9 000 2										
Surrogate: Tetrachloro-meta-xylene	8.00E-2				n .	2.000E-1		40.0	50-150	•	
Surrogate: Decachlorobiphenyl	9.00E-2				"	2.000E-1		45.0	50-150		

LCS (B105040-BS1)	Prepared: May-31-11 Analyzed: Jun-17-11

LCS (D103040-DS1)			110	parca. mi	.y-31-11	many zeu.	1011-11-1	1			
	Flags /					Spike	Source	%REC			RPD
Analyte	Result	Qualifiers	MDL	Limit	Units	Level	Result	%REC	Limits	RPD	Limit
PCB-1016	8.10		0.500	1.00	ug/L	10.00		81.0	70-130		
PCB-1260	7.02		0.500	1.00	н	10.00		70.2	70-130		
S	0.110				"	200051	-				
Surrogate: Tetrachloro-meta-xylene					"	2.000E-1		55.0	50-150		
Surrogate: Decachlorobiphenyl	9.00E-2				"	2.000E-1		45.0	50-150		

LCS (B105040-BS2)

Prepared: May-31-11 Analyzed: Jun-17-11

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77 W. Jackson Chicago IL, 60604 Project: United Oil Recovery Services

Project Number: EN0211 Project Manager: Paul Novak

Reported: Jul-06-11 15:58

PCB by GC/ECD, EPA 8082 A (modified) - Quality Control **US EPA Region 5 Chicago Regional Laboratory**

Batch B105040 - EPA 3510B		Flags /		Reporting		Spike	Source		%REC		RPD
Analyte	Result	Qualifiers	MDL	Limit	Units	Level	Result	%REC	Limits	RPD	Limit
PCB-1016	7.50	· · · · · · · · · · · · · · · · · · ·	0.500	1.00	ug/L	10.00	<u>_</u>	75.0	70-130		
PCB-1260	7.84		0.500	1.00	н	10.00		78.4	70-130		
Surrogate: Tetrachloro-meta-xylene	0.100				n	2.000E-1		50.0	50-150	,	**
Surrogate: Decachlorobiphenyl	0.150				"	2.000E-1		75.0	50-150		

Prepared: May-31-11 Analyzed: Jun-17-11 LCS Dup (B105040-BSD1)

		Flags /		Reporting		Spike	Source		%REC		RPD
Analyte	Result	Qualifiers	MDL	Limit	Units	Level	Result	%REC	Limits	RPD	Limit
PCB-1016	8.13		0.500	1,00	ug/L	10,00		81.3	70-130	0.370	30
PCB-1260	8.39		0.500	1.00	n	10.00		83.9	70-130	17.8	30
Surrogate: Tetrachloro-meta-xylene	0.110				"	2.000E-1		55.0	50-150		
Surrogate: Decachlorobiphenyl	0.150				n	2.000E-1		75.0	50-150		

Matrix Spike (B105040-MS1)	Bource	1105008-03 Flags /		pared: Mag Reporting	,	Spike	Source		%REC		RPD
Analyte	Result	Qualifiers	MDL	Limit	Units	Level	Result	%REC	Limits	RPD	Limit
PCB-1016	U	MI	0.500	1.00	ug/L	10.00	U		50-150		
PCB-1260	U	MI	0.500	1.00	rŧ	10.00	U		50-150		
Surrogate: Tetrachloro-meta-xylene	4.00E-2	<u> </u>				2.000E-1		20.0	50-150		
Surrogate: Decachlorobiphenyl	0.00	MI			n	2.000E-1			50-150		

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Office of Enforcement and Compliance Assurance

77 W. Jackson

Chicago IL, 60604

Project: United Oil Recovery Services

Project Number: EN0211 Project Manager: Paul Novak Reported:

Jul-06-11 15:58

PCB by GC/ECD, EPA 8082 A (modified) - Quality Control US EPA Region 5 Chicago Regional Laboratory

Batch B105040 - EPA 3510B

Matrix Spike (B105040-MS1)	Source:	1105008-03	Pre	pared: Ma	y-31-11 A	\nalyzed:	Jun-17-1	1			
		Flags /		Reporting		Spike	Source		%REC		RPD
Analyte	Result	Qualifiers	MDL	Limit	Units	Level	Result	%REC	Limits	RPD	Limit

Batch B106013 - EPA 3580A

Blank (B106013-BLK1)			Pre	epared: Ju	n-14-11	Analyzed:	Jun-17-1	1			
		Flags /	-	Reporting		Spike	Source		%REC		RPD
Analyte	Result	Qualifiers	MDL	Limit	Units	Leve1	Result	%REC	Limits	RPD	Limit
PCB-1016	U		1.25	2.50	ug/g						
PCB-1221	U		1.25	2.50	11						
PCB-1232	\mathbf{U}		1.25	2.50	н						
PCB-1242	\mathbf{U}		1.25	2.50	н						
PCB-1248	\mathbf{U}		1.25	2.50	н						
PCB-1254	U		1.25	2.50	н						
PCB-1260	U		1.25	2.50	Ħ						
PCB-1262	\mathbf{U}		1.25	2.50	rt						
PCB-1268	U		1.25	2.50	IT.						
		en till ser enneste enner værennen, havnet bet skil skil skil									
Surrogate: Tetrachloro-meta-xylene	0.400				"	5.000E-1		80.0	52-110		
Surrogate: Decachlorobiphenyl	0.400				"	5.000E-1		80.0	52-110		

LCS (B106013-BS1)	Prer	pared: Jun-14-11 Anal	vzed: Jun-17-11

						1111111	· · · · · · · · · · · · · · · · · · ·	<u> </u>			
		Flags /		Reporting		Spike	Source		%REC		RPD
Analyte	Result	Qualifiers	MDL	Limit	Units	Level	Result	%REC	Limits	RPD	Limit
PCB-1016	16.3		1.25	2.50	ug/g	25.00		65.3	70-130		

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PCB by GC/ECD, EPA 8082 A (modified) - Quality Control US EPA Region 5 Chicago Regional Laboratory

Batch B106013 - EPA 3580A

LCS (B106013-BS1)			Pre	epared: Jui	1-14-11	Analyzed: .	Jun-17-1	1			
Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
PCB-1260	20.1		1.25	2.50	ug/g	25.00		80.5	70-130		
Surrogate: Tetrachloro-meta-xylene	0.200				"	5.000E-1		40.0	52-110		
Surrogate: Decachlorobiphenyl	0.450				"	5.000E-1		90.0	52-110		

		Pr	epared: Jur	ı-14-11 .	Analyzed:	Jun-17-1	1			
	Flags /		Reporting		Spike	Source		%REC		RPD
Result	Qualifiers	MDL	Limit	Units	Level	Result	%REC	Limits	RPD	Limit
14.0		1.25	2.50	ug/g	25.00		55.8	70-130	15.7	30
20.9		1.25	2.50	n	25.00		83.6	70-130	3.78	30
7.50E-2				"	5.000E-1		15.0	52-110		
0.450				"	5.000E-1		90.0	52-110		
	14.0 20.9 7.50E-2	Result Qualifiers 14.0 20.9 7.50E-2	Flags / Qualifiers MDL	Result Qualifiers MDL Limit	Result Qualifiers MDL Limit Units	Result Flags / Qualifiers Reporting MDL MDL Limit Spike Limit Units Level 14.0 1.25 2.50 ug/g 25.00 20.9 1.25 2.50 " 25.00 7.50E-2 " 5.000E-1	Result Qualifiers MDL Limit Units Level Result	Result Flags / Qualifiers Reporting MDL Limit Spike Units Source Result %REC 14.0 1.25 2.50 ug/g 25.00 55.8 20.9 1.25 2.50 " 25.00 83.6 7.50E-2 " 5.000E-1 15.0	Result Qualifiers MDL Limit Units Level Result %REC Limits 14.0 1.25 2.50 ug/g 25.00 55.8 70-130 20.9 1.25 2.50 " 25.00 83.6 70-130 7.50E-2 " 5.000E-1 15.0 52-110	Result Flags / Qualifiers Reporting MDL Limit Spike Level Units Source Result %REC Limits RPD 14.0 1.25 2.50 ug/g 25.00 55.8 70-130 15.7 20.9 1.25 2.50 " 25.00 83.6 70-130 3.78

Matrix Spike (B106013-MS1)	Source:	1105008-04	Pr	epared: Jur	1-14-11	Analyzed:	Jun-17-1	1			
Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
PCB-1016	U	MI	0.460	0.919	ug/g	9.191	U		50-150		
PCB-1260	U	ΜI	0.460	0.919	Ħ	9,191	U		50-150		
Surrogate: Tetrachloro-meta-xylene	0.00				"	1,838E-1			52-110		
Surrogate: Decachlorobiphenyl	0.00	Μſ			"	1.838E-1			52-110		

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77 W. Jackson

Chicago IL, 60604

Project: United Oil Recovery Services

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Jul-06-11 15:58

PCB by GC/ECD, EPA 8082 A (modified) - Quality Control US EPA Region 5 Chicago Regional Laboratory

Batch B106013 - EPA 3580A

Matrix Spike (B106013-MS1)	Source:	1105008-04	Pre	epared: Ju	n-14-11 A	analyzed:	Jun-17-1	1			
		Flags /		Reporting	•	Spike	Source		%REC		RPD
Analyte	Result	Qualifiers	MDL	Limit	Units	Level	Result	%REC	Limits	RPD	Limit

Matrix Spike Dup (B106013-MSD1)	Source:	1105008-04	Pr	epared: Jui	1-14-11	Analyzed:	Jun-17-1	1			
		Flags /		Reporting		Spike	Source		%REC		RPD
Analyte	Result	Qualifiers	MDL	Limit	Units	Level	Result	%REC	Limits	RPD	Limit
PCB-1016	U	MI	0.475	0.951	ug/g	9.506	U		50-150		30
PCB-1260	U	Ml	0.475	0.951	11	9,506	U		50-150		30
Surrogate: Tetrachloro-meta-xylene	0.00			****	"	1.901 <i>E-1</i>	T	(4)	52-110		
Surrogate: Decachlorobiphenyl	0.00				"	1.901E-1			52-110		

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Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605 Phone:(312)353-8370 Fax:(312)886-2591



Office of Enforcement and Compliance Assurance

77 W. Jackson Chicago IL, 60604 Project: United Oil Recovery Services

Project Number: EN0211 Project Manager: Paul Novak Reported: Jul-06-11 15:58

Notes and Definitions

MI	Matrix Interferences
L	The identification of the analyte is acceptable; the reported value may be biased low. The actual value is expected to be greater than the reported value.
J	The identification of the analyte is acceptable; the reported value is an estimate.
U	Not Detected
NR	Not Reported

Items for Project Manager Review

LabNumber	Analysis	Analyte	Exception
			Default Report (not modified)
			VERSION 6.08:2012
	PCB (TSCA)	(Oil)	J-Flags used
	PCB (TSCA)	(Oil)	Result calculations based on MDL
	PCB (TSCA)	(Oil)	Special Units: (ug/g)
	PCB (TSCA)	(Water)	J-Flags used
	PCB (TSCA)	(Water)	Result calculations based on MDL
	PCB (TSCA)	(Water)	Special Units: (ug/L)
1105008-01	PCB (TSCA)	Decachlorobiphenyl	MI: Matrix Interferences
1105008-01	PCB (TSCA)	PCB-1016	L: The identification of the analyte is acceptable; the reported value may be biased low. The actual value is expected to be greater than the reported value.
1105008-01	PCB (TSCA)	PCB-1221	L: The identification of the analyte is acceptable; the reported value may be biased low. The actual value is expected to be greater than the reported value.
1105008-01	PCB (TSCA)	PCB-1232	L: The identification of the analyte is acceptable; the reported value may be biased low. The actual value is expected to be greater than the reported value.
1105008-01	PCB (TSCA)	PCB-1242	L: The identification of the analyte is acceptable; the reported value may be biased low. The actual value is expected to be greater than the reported value.
1105008-01	PCB (TSCA)	PCB-1248	L: The identification of the analyte is acceptable; the reported value may be biased low. The actual value is expected to be greater than the reported value.
1105008-01	PCB (TSCA)	PCB-1254	L: The identification of the analyte is acceptable; the reported value may be biased low. The actual value is expected to be greater than the reported value.
1105008-01	PCB (TSCA)	PCB-1260	L. The identification of the analyte is acceptable; the reported value may be biased low. The actual value is expected to be greater than the reported value.
1105008-01	PCB (TSCA)	PCB-1262	L: The identification of the analyte is acceptable; the reported value may be biased low. The actual value is expected to be greater than the reported value.
£105008-01	PCB (TSCA)	PCB-1268	L: The identification of the analyte is acceptable; the reported value may be biased low. The actual value is expected to be greater than the reported value.
1105008-02	PCB (TSCA)	Decachlorobiphenyl	MI: Matrix Interferences
1105008-02	PCB (TSCA)	PCB-1016	L: The identification of the analyte is acceptable; the reported value may be biased low. The actual value is expected to be greater than the reported value.
1105008-02	PCB (TSCA)	PCB-1221	L: The identification of the analyte is acceptable; the reported value may be biased low. The actual value is expected to be greater than the reported value.
1105008-02	PCB (TSCA)	PCB-1232	L: The identification of the analyte is acceptable: the reported value may be biased low. The actual value is expected to be greater than the reported value.
1105008-02	PCB (TSCA)	PCB-1242	L: The identification of the analyte is acceptable; the reported value may be biased low. The actual value is expected to be greater than the reported value.
1105008-02	PCB (TSCA)	PCB-1248	L: The identification of the analyte is acceptable; the reported value may be biased low. The actual value is expected to be greater than the reported value.
1105008-02	PCB (TSCA)	PCB-1254	L: The identification of the analyte is acceptable; the reported value may be biased low. The actual value is expected to be greater than the reported value.
1105008-02	PCB (TSCA)	PCB-1260	L: The identification of the analyte is acceptable; the reported value may be biased low. The actual value is expected to be greater than the reported value.

Items for Project Manager Review

1105008-02 PCB (TSCA) PCB-1268 1105008-03 PCB (TSCA) PCB-1268 1105008-03 PCB (TSCA) PCB-1268 1105008-03 PCB (TSCA) PCB-1268 1105008-03 PCB (TSCA) PCB-1210 1105008-03 PCB (TSCA) PCB-1212 1105008-04 PCB (TSCA) PCB-1222 1105008-05 PCB (TSCA) PCB-1232 1105008-05 PCB (TSCA) PCB-1232 1105008-06 PCB (TSCA) PCB-1248 1105008-07 PCB (TSCA) PCB-1254 1105008-08 PCB (TSCA) PCB-1254 1105008-09 PCB (TSCA) PCB-1256 1105008-09 PCB (TSCA) PCB-1260 1105008-09 PCB (TSCA) PCB-1260 1105008-09 PCB (TSCA) PCB-1260 1105008-09 PCB (TSCA) PCB-1268 1105008-09 PCB (TSCA) PCB-1269 1105008-09 PCB (TSCA) PCB-1269	LabNumber	Analysis	Analyte	Exception
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1105008-04 PCB (TSCA) PCB-1242 L: The identification of the analyte is acceptable; the reported value may be biased low. The actual value is expected to be greater than the reported value. L: The identification of the analyte is acceptable; the reported value may be biased low. The actual value is expected to be greater than the reported value. 1105008-04 PCB (TSCA) PCB-1254 L: The identification of the analyte is acceptable; the reported value may be biased low. The actual value is expected to be greater than the reported value is expected to be greater than the reported value. 1105008-04 PCB (TSCA) PCB-1260 L: The identification of the analyte is acceptable; the reported value may be biased low. The actual value is expected to be greater than the reported value. L: The identification of the analyte is acceptable; the reported value may be biased low. The actual value is expected to be greater than the reported value. L: The identification of the analyte is acceptable; the reported value may be biased low. The actual value is expected to be greater than the reported value. L: The identification of the analyte is acceptable; the				expected to be greater than the reported value.
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1105008-04 PCB (TSCA) PCB-1248 1105008-04 PCB (TSCA) PCB-1254 1105008-04 PCB (TSCA) PCB-1254 1105008-04 PCB (TSCA) PCB-1260 PCB-	1105008-04	TCD (TSCA)		
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L: The identification of the analyte is acceptable; the reported value may be biased low. The actual value is expected to be greater than the reported value. L: The identification of the analyte is acceptable; the reported value may be biased low. The actual value is expected to be greater than the reported value may be biased low. The actual value is expected to be greater than the reported value. PCB-1262 L: The identification of the analyte is acceptable; the reported to be greater than the reported value. L: The identification of the analyte is acceptable; the			•	expected to be greater than the reported value.
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1105008-04 PCB (TSCA) PCB-1260 L: The identification of the analyte is acceptable; the reported value may be biased low. The actual value is expected to be greater than the reported value. PCB-1262 L: The identification of the analyte is acceptable; the	1103006-04	100 (100.1)		reported value may be biased low. The actual value is
reported value may be biased low. The actual value is expected to be greater than the reported value. DCB (TSCA) PCB-1262 reported value may be biased low. The actual value is expected to be greater than the reported value. L: The identification of the analyte is acceptable; the				
expected to be greater than the reported value. L: The identification of the analyte is acceptable; the	1105008-04	PCB (TSCA)	PCB-1260	reported value may be biased low. The actual value is
DCB (TSCA) PCR-1262 L: The identification of the analyte is acceptable; the				expected to be greater than the reported value.
1105000000	1105008-04	PCB (TSCA)	PCB-1262	L: The identification of the analyte is acceptable; the
reported value may be biased low. The actual value is	1103000-04	. 55 (150/1)		reported value may be biased low. The actual value is
expected to be greater than the reported value.			!	expected to be greater than the reported value.

Items for Project Manager Review

LabNumber	Analysis	Analyte	Exception		
1105008-04	PCB (TSCA)	PCB-1268	L. The identification of the analyte is acceptable; the reported value may be biased low. The actual value is expected to be greater than the reported value.		
B105040-BLK1	PCB (TSCA)	Decachlorobiphenyl	Exceeds lower control limit		
B105040-BLK1	PCB (TSCA)	Tetrachloro-meta-xylene	Exceeds lower control limit		
B105040-B\$1	PCB (TSCA)	Decachlorobiphenyl	Exceeds lower control limit		
B105040-MS1	PCB (TSCA)	Decachlorobiphenyl	Ml: Matrix Interferences		
B105040-MS1	PCB (TSCA)	PCB-1016	MI: Matrix Interferences		
B105040-MS1	PCB (TSCA)	PCB-1016	Spike recovery below MDL		
B105040-MS1	PCB (TSCA)	PCB-1260	MI: Matrix Interferences		
B105040-MS1	PCB (TSCA)	PCB-1260	Spike recovery below MDL		
B105040-MS1	PCB (TSCA)	Tetrachloro-meta-xylene	Exceeds lower control limit		
B106013-BS1	PCB (TSCA)	PCB-1016	Exceeds lower control limit		
B106013-BS1	PCB (TSCA)	Tetrachloro-meta-xylene	Exceeds lower control limit		
B106013-BSD1	PCB (TSCA)	PCB-1016	Exceeds lower control limit		
B106013-BSD1	PCB (TSCA)	Tetrachloro-meta-xylene	Exceeds lower control limit		
B106013-MS1	PCB (TSCA)	Decachlorobiphenyl	MI: Matrix Interferences		
B106013-MS1	PCB (TSCA)	PCB-1016	MI: Matrix Interferences		
B106013-MS1	PCB (TSCA)	PCB-1016	Spike recovery below MDL		
B106013-MS1	PCB (TSCA)	PCB-1260	MI: Matrix Interferences		
B106013-MS1	PCB (TSCA)	PCB-1260	Spike recovery below MDL		
B106013-MSD1	PCB (TSCA)	PCB-1016	MI: Matrix Interferences		
B106013-MSD1	PCB (TSCA)	PCB-1016	Spike recovery below MDL		
B106013-MSD1	PCB (TSCA)	PCB-1260	MI: Matrix Interferences		
B106013-MSD1	PCB (TSCA)	PCB-1260	Spike recovery below MDL		



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Sample, Log and Extraction Comments

1105008-03 PCB (TSCA)

pH = 6pH = 6



Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605 Phone:(312)353-8370 Fax:(312)886-2591

WORK ORDER

Printed: 7/6/2011 4:14:40PM

1105008

US EPA Region 5 Chicago Regional Laboratory

Client: Office of Enforcement and Compliance Assurance

Project: United Oil Recovery Services

Project Manager:

Greg Mitsakopoulos

Project Number:

EN0211

Report To:

Paul Novak

77 W. Jackson

Phone: 440-250-1714

e of Enforcement and Compliance Assur

Chicago, IL 60604

Fax: (312) 886-2591

Date Due:

Jul-11-11 15:00 (45 day TAT)

Received By:

Chi Tang

Date Received:

May-25-11 12:31

Logged In By:

Robert Snyder

Date Logged In:

May-25-11 15:20

Samples Received at:

Sample tags/labels

5.6°C Yes

Seals Intact Received on ice

Yes Yes

Paperwork Included

Yes

Analysis	Due	ТАТ	Expires	Comments	·
1105008-01 S01 [Oil	Sampled May-24-11 15:55	Central			
PCB (TSCA)	Jul-11-11 12:00	45	Nov-20-11 15:55		
1105008-02 S02 [Oil	Sampled May-24-11 15:58	Central			
PCB (TSCA)	Jul-11-11 12:00	45	Nov-20-11 15:58		
1105008-03 S03 [Wa	ter] Sampled May-24-11 16	:02 Centra	ŧI		
PCB (TSCA)	Jul-11-11 12:00	45	May-31-11 16:02	pH = 6	
1105008-04 S04 [Oil	Sampled May-24-11 16:30	Central			
PCB (TSCA)	Jul-11-11 12:00	45	Nov-20-11 16:30		

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